The Commonwealth of Massachusetts

DIVISION of STATE COLLEGES

WORCESTER STATE COLLEGE

1970

SUMMER SESSION

JUNE 29 — AUGUST 7

Program of Continuing and Graduate Studies

Tel: 799-2405 or 756-5121

FACULTY

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DORIS N. CARTER, B.S., M.A.
HAROLD L. CHAPMAN, B.S., Ed.M., M.S.
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MARY T. DOLPHIN, A.B., Ed.M.
ALFRED F. EDDY, A.B., M.A.
PAUL J. EDMUNDS, A.B., M.A., Ph.D.
LEONARD F. FARREY, B.S., Ed.M.
ROBERT W. GOSS, B.S., Ed.M., M.A., Ed.D.
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ROSE D. GUERIN, A.B., M.A.
MARY T. HAYES, B.S., Ed.M., Ed.D.
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RICHARD G. HUNT, B.S., M.S.
MARION J. JENNINGS, B.S.E., Ed.M., Ph.D.
GEORGE T. JOSEPH, B.S., Ed.M.
WILLIAM D. JOYCE, A.B., M.S.
ABRAM KAMINSKY, B.M.E., M.M.E.
ROBERT E. LINGNER, A.B., M.A.
JOSEPH C. LONERGAN, B.S., Ed.M.
FELIX E. MASTERSON, A.B., M.A.
WILLIAM K. MASTERSON, A.B., A.M., M.S.
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BERNARD L. McGOUGH, A.B., Ed.M., M.S.
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MELVIN MERKEN, B.S., A.M., Ed.D.
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KATHRYN R. O'DONNELL, B.S., A.M.
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MAURICE M. ROUMANI, A.B., M.A.
BRUCE D. RUSSELL, B.S., M.S.
JOSEPH A. SHEA, A.B., A.M., Ph.D.
HELEN M. SMITH, A.B., B.S.
G. FLINT TAYLOR, A.B., Ed.M., Ph.D.
ROBERT E. TODD, A.B., A.M.

GENERAL INFORMATION

The courses announced in this bulletin are offered by the Division of State Colleges in cooperation with the Worcester State College. The Division of State Colleges reserves the right to cancel any course which does not have a minimum of 20 enrollments.

Both graduate and undergraduate courses are offered. Courses carrying undergraduate credit only are numbered in the 7- series; courses carrying both graduate and undergraduate credit are numbered in the 8- series; courses carrying graduate credit only are numbered in the 9- series.

REGISTRATION

PRE-REGISTRATION: Applications for possible registration in *Reading Workshop Courses* SS9-60 and SS9-61 may be obtained in the Graduate Office or from the instructors.

REGISTRATION POLICY FOR SUMMER SESSION 1970

(a) Candidates who expect their degree in August 1970 may register on May 26 through May 28, 1970 from 3:00 P.M. to 5:00 P.M.

(b) Matriculating students in the Master's or Bachelor's programs may register on Saturday, June 13, 1970 from 9:00 A.M. to 2:00 P.M.

(c) All students who desire to register for course offerings will register on June 15, 1970 through June 25, 1970 from 9:00 A.M. to 4:30 P.M. daily.

Registration will be held at the Worcester State College Graduate Office, Room S-112 Science-Laboratory Building. Matriculation cards must be passed in at the time of registration. No multiple registrations — "One person — one registrant."

PLEASE NOTE NEW FEE SCHEDULE

REGISTRATION FEE (required of all students)—$10.00

LIBRARY FEE (required of all students)—$5.00

GRADUATE FEE (for all persons receiving degrees)—$5.00

TUITION FEE per semester hour of credit Massachusetts resident—$18.00; non-resident—$25.00; audit (resident and non-resident)—$11.00

LATE FEE—$2.00; CHANGE OF COURSE FEE—$2.00.

Tuition and Fees payable by check or money order at the time of Registration. Under no circumstances will any of the Registration Fees be returned.

VETERANS

Any resident of Massachusetts who has served in any branch of the armed services for at least 90 days, one of which must have been served either between September 16, 1940, and December 31, 1946, or between June 25, 1950 and January 31, 1955, and who has a discharge other than dishonorable may enroll without charge for instruction in any course here offered within the established limitation of 120 semester hours. To establish his eligibility

the veteran must present his discharge (or photostatic copy) or certificate of satisfactory service in the case of officers, together with proof of residence in advance of the opening date of class meeting.

All veterans who come under the new cold war G.I. Bill must pay their tuition to the college. These veterans are treated as non-veterans for registration purposes, are reimbursed by the Veterans' Administration.

**Note.* If this is your first enrollment, you must contact your Veterans' Administration Office for information on reimbursement. If you have been enrolled in courses at Worcester State College, you, upon completed registration here, will be re-enrolled by the Office of Continuing Studies for the veteran's reimbursement.

Veterans who have served at least 180 days between February 4, 1955 and the termination of the Vietnam emergency, have had service in Vietnam, and whose service was credited to Massachusetts are also exempt from paying tuition when they present a certificate of Exemption of Tuition from the Massachusetts Department of Education (Miss Mary E. McKay, Department of Education, 182 Tremont Street, Boston, Mass.). To obtain this certificate the veteran first presents a photostat of his discharge papers to the State Adjutant General, Room 184, State House, Boston, Mass. and obtains certification that he meets the necessary requirements and that his service is credited to Massachusetts. This document, in turn, is submitted to the State Department of Education as indicated above. The State Department then issues the Certificate of Exemption from Tuition which must be presented at the time of registration to Worcester State College.

CREDIT

Regulations and requirements for degree study may be obtained at the Office of the Director of Continuing Studies, Worcester State College. It is urgently recommended that the guidance and advice of the Director and your faculty adviser in your Area of Concentration, wherein you must have five approved courses — effective September 1966 — be sought and faithfully followed in planning a program of study. For teachers in service, a maximum of six semester hours of credit per semester may be credited toward a degree.

The GRADUATE RECORD EXAMINATION, REQUIRED for all graduate degree students, will be conducted at Worcester State College on Saturday, July 11, 1970. The bulletin of information and application blanks can be secured at the Director's Office, Room S-112 Science-Laboratory Building at Worcester State College. Registration through Educational Testing Service, Princeton, New Jersey should be completed three weeks prior to the test.

The degree of Master of Education is awarded at the State Colleges at Boston, Bridgewater (including Hyannis Summer Session), Fitchburg, Framingham, North Adams, Salem, Westfield, and Worcester. Graduate courses in partial fulfillment of the requirements for this degree may be offered from time to time in the other State Colleges and the Massachusetts College of Art, subject to advance approval by Worcester State College.

Students must park in the Student Parking Areas behind the Science-Laboratory Building or the side and rear of the Gymnasium-Library Building.

The Graduate Comprehensive Examination will be conducted on Friday, July 17, 1970 at 2:00 P.M.

POST Ed.M. STUDENTS MUST RECEIVE THE HONOR GRADES OF A OR B FOR CREDIT.

All degree candidates must file Intention to Graduate form with the Director in Room S-112 early in the final semester of graduate study.

Courses carrying undergraduate credit only are numbered in the 7- series; courses carrying both undergraduate and graduate credit are numbered in the 8- series; and courses carrying graduate credit only are numbered in the 9- series. Assistance in selection and registering in all courses is available in Room S-112 Science-Laboratory Building, the W.S.C. Office, Phone 799-2405 or 756-5121.

ALL COURSES CARRY THREE SEMESTER HOURS OF CREDIT

No.	*Course Title*	*Instructor*	*Room*
FIRST PERIOD BEGINNING AT 8:30 A.M. (DAILY TO 9:45 A.M.)			
SS9-290	Administration of Athletics	John P. Mockler	S-126
SS9-75	Administration of Instructional Media Center	William P. Joyce	G-22
SS9-777	Advance Philosophical Foundations of Education, Section A	Joseph W. Riordan	S-212
SS9-61	Clinical Practicum in Reading for Urban Children (9:00–12:00 P.M. at Lamartine St. School)	Marion J. Jennings	
SS9-84	Elementary School Science Education Institute (8:30 A.M. to 11:10 A.M.)	Harold L. Chapman	S-205
SS8-875	Introduction to Philosophical Foundations of Education	William K. Masterson	S-211
SS9-60	Laboratory Practicum in Remedial & Corrective Reading at Elementary Level (8:30 A.M.–1:110 A.M.)	J. Francis O'Mara	Conf. Hall
SS8-912	Materials & Methods of Teaching Special Classes	Joseph C. Lonergan	S-231
SS9-90	School Law	Paul J. McCarron	S-227
SS9-87	Supervision in Today's Schools	Ruth Griffiths	S-226
SS9-81	Teaching Enriched Language Arts in Primary Grades	Paul F. O'Neil	S-214
SS9-63	Techniques of Counseling	Leonard F. Farrey	S-304
SS8-310	Form & Idea in Today's Theatre	Robert E. Todd	S-311
SS8-44	Speech Correction & Clinical Practice	John F. McLaughlin	S-224
SS8-873	Animal World & Its Evolution	Paul A. Holle	S-128
SS8-869	Concepts & Theories of Physical Science	Melvin Merken	S-301
SS8-577	Modern Math. for Junior High Teachers	Evelyn Robinson	S-225
SECOND PERIOD BEGINNING AT 9:55 A.M. DAILY TO 11:10 A.M.			
SS8-70	Early Childhood and Learning Environment	Sr. Josephina Concannon	S-214
SS8-461	Innovative Approaches to the Teaching of History and Social Sciences	Felix E. Masterson	S-228
SS9-88	Organization & Administration of the Elementary School	George T. Joseph	S-211
SS8-754	Psychology of Subnormal & Unadjusted Children	Joseph A. Shea	S-310

No.	*Course Title*	*Instructor*	*Room*
SS9-51	Research in Education, Section A	Alfred F. Eddy	S-225
SS9-98	School Finance II	Robert W. Goss	S-314
SS8-92	Improvement of Instruction	Ruth Griffiths	S-226
SS8-82	Teaching Music in Elementary School	Abram Kaminsky	S-123
SS9-71	Techniques & Production of Instructional Materials	Paul Davis	A-110
SS9-67	Practicum in Counseling	Leonard F. Farrey	S-212
SS8-48	Auditory & Hearing Problems	Rose D. Guerin	S-223
SS8-102	Cultural Geography	Richard Hunt	S-311
SS8-200	Introduction to Design	Doris N. Carter	Art Room
SS8-182	Victorian Influence on Modern Literature	Paul J. Edmunds	S-312
SS8-178	The Short Story	Kathryn R. O'Donnell	G-23
SS9-491	Contemporary Politics of the Middle East	Maurice M. Roumani	S-304

THIRD PERIOD BEGINNING AT 11:20 A.M. to 12:35 P.M.

SS9-778	Advanced Philosophical Foundations of Education, Section B	Joseph W. Riordan	S-212
SS9-752	Advanced Psychological Foundations of Education, Section A	Joseph A. Shea	S-310
SS8-261	Art for the Classroom Teacher	Mary T. Dolphin	Art Room
SS9-814	Education of the Gifted	Sr. Josephina Concannon	S-214
SS8-750	Introduction to Psychological Foundations of Education	Joseph C. Lonergan	S-231
SS8-293	Physical Education in the Elementary School	John P. Mockler	S-126
SS9-101	School Public Relations	Robert W. Goss	S-314
SS8-61	Principles & Practices of Guidance	Paul F. McCarron	S-227
SS8-420	Economic Geography	Richard G. Hunt	S-311
SS8-951	Human Biology for the Educator	Paul A. Holle	S-128
SS8-870	Principles of Organic Chemistry	Melvin Merken	S-301
SS8-497	U. S. Foreign Policy since 1945	Maurice M. Roumani	S-304

EVENING CLASSES

MONDAYS, TUESDAYS & THURSDAYS, 7:00 to 9:45 P.M.

SS9-753	Advanced Psychological Foundations of Education, Section B	Bernard J. Guarini	S-228
SS8-152	Books & Related Materials for Children	Mary T. Hayes	S-211
SS8-52	Research in Education, Section B	David W. Hilton	S-226
SS8-470	Sociology of Education	Frank C. Pizziferri	S-225
SS9-66	Personnel & Placement Services	G. Flint Taylor	S-227
SS8-579	Advance Calculus I	Anthony M. Devoe	S-205
SS9-953	Biology of Life Continuity	Bruce D. Russell	S-128
SS8-220	Introduction to Geology	Robert E. Lingner	S-224
SS8-677	The Baroque 17th Century History	Edwin R. Hedman	S-126
SS8-270	Reference Sources & Methods, Part I	Bernard L. McGough	G-22

SS9-290 Administration of Athletics **3 sem. hrs.**

Course content includes the recognition, discussion and systematic analysis of controversial issues and problems. Among topics to be studied are the optimum use of facilities, ethical practices, financing the program, relationships with non-school programs, interscholastic athletic competition below high school level, youth fitness, crowd control, injury prevention, program evaluation, and community organization for health, physical education, and recreation. Particular attention is given to problems suggested by class members.
Daily at 8:30 A.M. John P. Mockler

SS9-75 Administration of Instructional Media Center **3 sem. hrs.**

Covers the theory and practice of administering a collection of print and non-print materials, and a program of service fundamental to the achievement of educational goals in elementary and secondary schools. Those aspects of administration in which the librarian and school administrator are most directly concerned — physical plant, budget, public relations, staffing, scheduling, and record keeping — are stressed.
Daily at 8:30 A.M. William D. Joyce

SS9-777 Advanced Philosophical Foundations of Education, Section A **3 sem. hrs.**

This course has the two-fold purpose of (1) studying and evaluating the contributions made by outstanding philosopher-educators both of the past but especially of the modern eras, and (2) analyzing the basic philosophical issues and problems in education and society and the alternatives posed by the different philosophical systems and assumptions. The student is expected to read and analyze the original contributions of the major educational philosophers in order to determine to what extent a synthesis of viewpoint may be achieved. Prerequisites: Undergraduate credits in both Philosophy and in Philosophy of Education or equivalency.
Daily at 8:30 A.M. Joseph W. Riordan

SS9-61 Clinical Practices in Reading for the Urban School **6 sem. hrs.**

It is necessary to secure the written approval of the instructor to take this course. Application forms for approval are available in the office of the Department of Continuing Studies in the Science Building. Prerequisites are: A minimum of three years of teaching experience, involving the teaching of reading; a graduate course in developmental reading or the teaching of reading; and a graduate course in diagnostic and remedial techniques in reading.

The purpose of this laboratory course is to give graduate students of education the opportunity to tutor, with the guidance of a trained supervisor, one or more elementary school pupils from an urban school, who are reading disability cases. Classes will meet daily

during the summer session from 9:00 till 12:00, at the Lamartine Street School in the Reading Clinic. One-half of the three-hour session will be devoted to tutoring. During the remainder of the time, seminars, lectures, and demonstrations will be scheduled. Emphasis will be given to diagnostic techniques and special teaching strategies for reading disability cases from a target school. A course requirement will be the preparation of a case report, presenting a detailed diagnostic profile and specific recommendations for the removal of reading deficits.
Daily at 8:30 A.M. Marion J. Jennings

SS9-84 Elementary School Science Education Institute 6 sem. hrs.

This course is designed to meet the need for trained science teachers at the elementary level because of the great stress that is being placed on science and the introduction of many new elementary science programs that require special skills, attitudes, methods, procedures, and new approaches to the teaching of science as a process.

Participants will have an opportunity to work with materials from the AAAS, SCIS, ESS, and other programs. Classroom materials and individual study projects will be developed during the course. Experiences will be provided so that teachers may learn the techniques of scientific inquiry, creativity, discovery, and other ways to approach science teaching. Field trips, seminars, multi-media experiences, mini-teaching, and other means will be employed to further the teaching of science as a process. This course is designed for the elementary classroom teacher but others may be admitted with the permission of the instructor.
Daily from 8:30 to 11:10 A.M. Harold L. Chapman and Staff

SS8-875 Introduction to Philosophical Foundations of Education, Section A 3 sem. hrs.

This course is an historical approach to the study of educational thought and includes an examination of primary educational concepts which have evolved through Western thought to the present day. Selections from the great documents in educational thought are studied in relation to the historical period in which they were produced. The student is expected to read and analyze the original contributions of the major educational philosophers.
Daily at 8:30 A.M. William K. Masterson

SS9-60 Laboratory Practicum in Remedial & Corrective Reading at the Elementary Level 6 sem. hrs.

Study will be made of the symptoms and causes of reading disabilities and the procedures which may be used to aid in their correction. Each graduate student will be required to diagnose and analyze a pupil's reading difficulties through formal and informal testing procedures. A remedial program will be initiated and carried out for the pupils in a clinical setting. Cases will be from grades three through six. A case history of the remedial pupil will be required. This will include initial and final testing results along with the remedial tech-

niques used. A double period time block will consist of a seminar on the diagnostic and corrective procedures, following by a work period with the pupil under the supervision of the course instructor. Course prerequisites: (1) Three years teaching experience at the elementary level; (2) one basic course in the teaching of reading at the elementary school level; (3) approval of instructor. The course will carry six (6) semester hours graduate credit. Class size will be limited.
Daily at 8:30–11:10 A.M. Dr. J. Francis O'Mara

SS8-912 Methods and Materials in Teaching Special Classes 3 sem. hrs.

This course will deal with the study of the development of experiences which will provide optimum conditions of growth for the mentally retarded child. Emphasis will be placed on the mental equipment of the individual children, different degrees of retardation and their causes and disorders of behavior which frequently are concomitant. Types of curricula and organization of special classes will be considered. Major emphasis will be placed on language arts, quantitative thinking, and evaluative techniques. This course meets the requirements toward State Certification to teach a special class.
Daily at 8:30 A.M. Joseph C. Lonergan

SS9-90 School Law 3 sem. hrs.

This course is designed to acquaint administrators and teachers with school laws affecting public education in the United States, with particular emphasis upon the state and community laws of Massachusetts. Attention will be given to such topics as legal status of school committees, contractual rights and obligations of teachers, the suspension and expulsion of pupils and school attendance.
Daily at 8:30 A.M. Paul J. McCarron

SS9-87 Supervision in Today's Schools 3 sem. hrs.

This course is designed as an introductory course in supervision for teachers, school administrators, and supervisors at both elementary and secondary levels. Significant topics included in the course are: concepts of supervision; principles of supervision; organization for supervision; group process; techniques of supervision; and the evaluation and improvement of instruction, curriculum, and the supervisory program. Opportunity will be provided for concentrated study and application of the materials of the course to elementary, secondary, or special subject work. This course, or its equivalent, is prerequisite for all advanced courses in supervision.
Daily at 8:30 A.M. Ruth Griffiths

SS9-81 Teaching Enriched Language Arts Units in the Primary Grades 3 sem. hrs.

Structured especially for grades K-3 this course will concentrate upon those areas of the language program which call for a creative response from the pupils. Motivation and planning for poetry, storytelling, listening, creative dramatics, and vocabulary building will be examimed; and appropriate materials for their presentation will be

developed. Open to in-service primary teachers and those interested in teaching at this level.
Daily at 8:30 A.M. Paul F. O'Neil

SS9-63 Techniques of Counseling **3 sem. hrs.**

This course is intended for teacher and those concentrating in the guidance area. Principles of Counseling and the application of basic and advanced Techniques to the Counseling Process will be included. Case studies and personal, educational, and vocational problems on the elementary and secondary levels in counselor situations will be presented. This course is required for certification as a guidance counselor in Massachusetts.
Daily at 8:30 A.M. Leonard F. Farrey

SS8-310 Form and Idea in Today's Theatre **3 sem. hrs.**

To be conducted by a theoretician and practitioner of the theatre, this course will examine the contemporary theatre in terms of its philosophical and psychological practices as well as from the more traditional classroom considerations of theatre as dramatic literature. The dramatic works and theories of such major playwrights and practitioners of theatre as Albee, Artaud, Beckett, Brecht, Brook, Genet, Grotowski, Ionesco, and Pinter will be examined.
Daily at 8:30 A.M. Robert E. Todd

SS8-44 Speech Correction and Clinical Practicum **3 sem. hrs.**

Practical experience in the diagnosis and treatment of speech defects under clinical supervision. To teach the student speech therapist the techniques of managing the speech defective client. Parent contact, client counseling techniques, program initiation and management are stressed. Therapy materials and instrumentation are taught to prepare the student for the practice of speech therapy. Content outline: Assess type, severity of speech disorder, provide prognosis and institute therapy procedures. Learn to acquire case history from all referring informants. Relate appropriate information to informants and utilize parents and teachers in therapy program. Establish group or individuals therapy with proper tools, materials and instruments. Learn to establish goals by planning therapy.
Daily at 8:30 A.M. John F. McLaughlin

SS8-873 Animal World and its Evolution **3 sem. hrs.**

This course will include a survey of the animal kingdom, its evolution, and certain taxonomic considerations. The course will be directed towards expanding the background of those who have had a minimum of formal training in the biological sciences, and will be supplemented with appropriate audio-visual materials: demonstration, slides, movies, and examination of selected living and/or preserved specimens.
Daily at 8:30 A.M. Paul Holle

SS8-869 Concepts and Theories in Physical Science **3 sem. hrs.**

This course is concerned with the philosophy, methods, and some of the fundamental concepts of physical science. It will stress their application to topics of current interest. Experiments and demonstrations will be integrated with discussions, readings, and lectures. A previous knowledge of physics is not required.

Daily at 8:30 A.M. Melvin Merken

SS8-577 Modern Mathematics for the Junior High School Teacher **3 sem. hrs.**

This course is intended to provide the junior high school teacher with the mathematical concepts which will help him to convey the nature and spirit of mathematics from the current point of view. The course will begin with the study of fields, sets and the algebra of sets and functions. It will also include the properties of the various subsystems of the real and complex numbers.

Daily at 8:30 A.M. Evelyn Robinson

SS8-70 Early Childhood and Learning Environments **3 sem. hrs.**

The total growth of the young child (two through seven) will be examined from the perspective of current psychological findings. The various preschool will be evaluated: Montessori, traditional, compensatory and cognitively oriented programs. Emphasis will be placed on the developmental and theoretical findings as integrated in educational practice and social reform.

Daily at 9:55 A.M. Josephina Concannon

SS8-461 Innovative Approaches to the Teaching of History and the Social Studies **3 sem. hrs.**

This course will teach the use of behavioral objectives in the development of the "Inquiry" or "Discovery" approach to the teaching of History and the Social Studies. The emphasis would be placed on the theory behind this approach and the actual building of "models" implementing these ideas.

Daily at 9:55 A.M. Felix Masterson

SS9-88 Organization and Administration of the Elementary School **3 sem. hrs.**

The course will emphasize the many facets of elementary school administration in the larger setting of present day education will be stressed. Specifically, the course will deal with the principal's role in organizing for teaching and learning, administering pupil and staff personnel, special services, and integrating school and community life.

Daily at 9:55 A.M. George T. Joseph

SS8-754 Psychology of Subnormal and Unadjusted Children 3 sem. hrs.

This course deals with the psychology and treatment of children having superior or inferior intellectual ability, defective vision, hearing, speech and physical handicaps. Emphasis will be placed on the mental equipment of individual children, different degrees of retardation and their causes, and disorders of behavior which frequently are concomitant. The psychological bases of a suitable curriculum for mentally retarded children will be evaluated. This course may be taken toward State certification in a Special Class.

Daily at 9:55 A.M. Joseph A. Shea

SS9-51 Research in Education, Section A 3 sem. hrs.

This course will stress the use of appropriate research methods in the selection and evaluation of data. It is designed to aid the graduate student in the preparation and understanding of research reports. Major areas of emphasis will include the nature of and criteria for evaluating research, library techniques and resources, selection and documentation, organization and format of a report, and necessary statistical concepts and methods of research. The student will be expected to demonstrate his knowledge of these in a term research study.

Prerequisite — A Bachelor's degree from an accredited college.

Daily at 9:55 A.M. Alfred F. Eddy

SS9-98 School Finance II 3 sem. hrs.

Federal and State Financial Assistance Program for Schools.

This program is designed to acquaint school officials (and Potential officials) with the several avenues for acquiring financial aid for their school systems from both federal and state programs. Procedures and requirements involved in applying for, utilizing, and accounting for funds will be carefully examined.

Daily at 9:55 A.M. Robert W. Goss

SS8-92 The Improvement of Instruction 3 sem. hrs.

The purpose of this course is to assess instructional needs and means of improving instruction. The importance of education and objectives will be reviewed briefly. Techniques for lesson and unit planning, as well as preparation for daily teaching, will be explored. The importance of varying types of curricula patterns will be studied. Materials, equipment, and community resources will be surveyed. The importance of research in improving instruction will be studied.

Daily at 9:55 A.M. Ruth Griffiths

SS8-82 Teaching Music in the Elementary School 3 sem. hrs.

The place of music in the elementary curriculum with emphasis on the child's voice, selection and presentation of rote and listening songs needed by the classroom teacher for guiding growth in rhythm, notational, and listening experiences, survey of song series, recordings and other audio-visual materials used in the elementary school music program.

Daily at 9:55 A.M. Abram Kaminsky

SS9-71 Techniques and Production of Instructional Materials 3 sem. hrs.

This course is designed to enrich the teacher's classroom performance by developing techniques of visual presentation of subject materials. Pictorial presentations of instructional materials through non-artistic skills will be developed. The techniques apply at all levels of instruction, but the subject matter will be related to the specific interest of each teacher. Students will be expected to provide some of the materials consumed in producing the instructional materials.

Daily at 9:55 A.M. Paul Davis

SS9-67 Practicum in Counseling 3 sem. hrs.

This course is designed to give advanced graduate students the opportunity to put into practice the various theoretical aspects of counseling and guidance which they have learned in previous courses. Students will review the major areas of counseling theory, they will be supervised while giving individual counseling to junior and senior high school students and through the use of case conference they will be aided in evaluating their effectiveness as a counselor. Registration is restricted to those concentrating in guidance and counseling. Techniques of Counseling is a prerequisite for the Practicum, for those students who have not had Techniques of Counseling. They may elect to take this course and the Practicum together for a total of six hours credit.

Daily at 9:55 A.M. Leonard F. Farrey

SS8-48 Auditory and Hearing Problems 3 sem. hrs.

This course is designed to provide an understanding of the problem of hearing loss, diagnosis, testing, and corrective practice. Students in speech pathology need to become acquainted with pathological conditions which result in loss of hearing. They need to know the methods of assessment of loss and how to interpret the results of such assessments. Further, they need to understand the principles of Identification audiometry and how a hearing conservation program is established and maintained. Required for national certification.

Daily at 9:55 A.M. Rose D. Guerin

SS8-102 Cultural Geography 3 sem. hrs.

Cultural Geography aims at understanding the relationships between man and the land. It treats of the importance of settlement patterns, agricultural and economic activities, raw materials, resources, understanding development and trade as they affect the everyday life of the average man. Some consideration is also given to problems such as urbanization, pollution, conservation, and patterns of change, political, social, and economic.

Daily at 9:55 A.M. Richard Hunt

SS8-200 Introduction to Design 3 sem. hrs.

Lecture and Studio. This course introduces the student to the element used in the process of the organization of both two and three dimensional visual-images. Stress is placed on the exploration of line, form and color using a variety of media.

Daily at 9:55 A.M. Doris N. Carter

SS8-182 Victorian Influence on Modern Literature **3 sem. hrs.**

This course will trace the influence of the major Victorian writers (prose and poetry: Tennyson; Browning; Arnold; the Pre-Raphaelites; Dickens and Thackeray) on their 20th-century counterparts.
Daily at 9:55 A.M. Paul J. Edmunds

SS8-178 The Short Story **3 sem. hrs.**

This course is designed to provide a study of the development of the short story as a literary form, and an analysis of its techniques through a study of examples from the works of world writers. Practice in interpretative analysis and critical evaluation is provided.
Daily at 9:55 A.M. Kathryn R. O'Donnell

SS9-491 Contemporary Politics of the Middle East **3 sem. hrs.**

An examination of the major internal and external forces which affect the Middle East today. Particular attention will be given to crisis areas: Islam, Nationalism and Modernization, the Arab-Israeli Conflict, and the Great Powers involvement.
Daily at 9:55 A.M. Maurice M. Roumani

SS9-778 Advanced Philosophical Foundations of Education, Section B **3 sem. hrs.**

This course has the two-fold purpose of (1) studying and evaluating the contributions made by the outstanding philosopher-educators both of the past but especially of the modern eras, and (2) analyzing the basic philosophical issues and problems in education and society and the alternatives posed by the different philosophical systems and assumptions. The student is expected to read and analyze the original contributions of the major educational philosophers in order to determine to what extent a synthesis of viewpoint may be achieved. Prerequisites: Undergraduate credits in both Philosophy and in Philosophy of Education or equivalency.
Daily at 11:20 A.M. Joseph W. Riordan

SS9-752 Advanced Psychological Foundations of Education, Section A **3 sem. hrs.**

In this course class-members will study and evaluate the role of those environmental, mental, and extra-mental forces which motivate all learners to utilize fully and effectively their capacities, aptitudes. It includes a systematic analysis of the major schools of psychology with special attention focussed on contemporary schools. Attention is given to the teachers' role in the learning process and special emphasis will be centered on the application of these principles to specific classroom situations. Prerequisites: Nine semester hours undergraduate credit in General Psychology and Educational Psychology or their equivalency.
Daily at 11:20 A.M. Joseph A. Shea

SS8-261 Art for the Classroom Teacher **3 sem. hrs.**

In this studio workshop students will enrich their experiences in dealing with the art materials, skills and techniques valuable to the

classroom teacher. A combination lecture, informal discussion, and activity course will provide individual and group work in such areas as basic drawing, painting, lettering, and modeling. Exhibits, reproductions and slides will be used as enrichment material.
Daily at 11:20 A.M. Mary T. Dolphin

SS9-814 Education of the Gifted **3 sem. hrs.**

The course provides a conceptual framework in the light of current research findings to view facets of growth of the gifted child. Dimensions to be covered are identification, provision for, placement, evaluation of the gifted, historical overview of the movement; intensive study of Terman's data. The main focus is to give the classroom teacher a better understanding of dealing with the gifted child.
Daily at 11:20 A.M. Josephina Concannon

SS8-750 Introduction to Psychological Foundations of Education **3 sem. hrs.**

This course covers the theoretical aspects of psychology for the classroom teacher. It includes a systematic analysis of the major schools of psychology and a study of the effects of heredity and environment. Reading in the following areas will be required: results of research on growth and development, theories of intelligence, concepts in measurement and evaluation, individual differences in capacity and achievement, and learning theory.
Daily at 11:20 A.M. Joseph C. Lonergan

SS8-293 Physical Education in Elementary Schools **3 sem. hrs.**

This course is designed to acquaint the classroom teacher with procedures in physical education in the primary, middle, and upper grades. In addition to a study of the active games in the classroom indoor, and outdoor play areas, the experienced and prospective teachers will evaluate physical fitness testing, the rules governing the sports, and the guide lines for organizing Play Day programs.
Daily at 11:20 A.M. John P. Mockler

SS9-101 School Public Relations **3 sem. hrs.**

A study will be made of current practices of the school and community working together the use of community resources, co-operative school-community committees and their activities for better schools and more effective educational programs. An evaluation will be presented of means of co-operating to bring about sound economic support in order to improve mutual facilities and services for pupil development and community improvement.
Daily at 11:20 A.M. Robert W. Goss

SS8-61 Principles and Practices of Guidance Guidance I **3 sem. hrs.**

This is an introductory course designed to provide the student with an understanding of the need, meaning, and scope of guidance services. The principles and practices involved in the following guidance areas will be considered: introduction and philosophy of

guidance; understanding the individual and his needs; essential orientation activities for the student; collecting, recording, and evaluating data; interviewing and counseling; guidance through group activities; organization, and evaluation of guidance. The emphasis of the course will be placed upon the role of the classroom teacher in the guidance program.
Note: This course or its equivalent is a prerequisite of all advanced courses in guidance.
Daily at 11:20 A.M. Paul J. McCarron

SS8-420 Economic Geography **3 sem. hrs.**

A study is made of the geographic elements contributing to the localization of economic activities. The distribution, conditions of production, and trade in some of the primary commodities is studied in detail.
Daily at 11:20 A.M. Richard G. Hunt

SS8-951 Human Biology for the Educator **3 sem. hrs.**

This course will consider the nature and dynamics of the human organism (including the anatomy, physiology, and pathology of human organs and organ systems). It will be directed towards expanding the background of those who have had a minimum of or no formal training in the biological sciences. Certain basic questions will be posed; and by means of lectures and/or laboratory demonstrations, answers and recent interpretations to these questions will be offered.
Daily at 11:20 A.M. Paul A. Holle

SS8-870 Principles of Organic Chemistry **3 sem. hrs.**

This introduction to organic chemistry will emphasize the study of group properties as interpreted by modern electronic theory and molecular structure. A representative list of experiments and syntheses will be performed in the laboratory. A previous knowledge of general chemistry is desirable but not essential.
Daily at 11:20 A.M. Melvin Merken

SS8-497 United States Foreign Policy since 1945 **3 sem. hrs.**

The course will analyze the forces which have shaped United States Foreign Policy since the end of World War II. The analysis will include the basic assumptions and principles of United States Foreign Policy and the dilemmas inherent in its character. Finally, an attempt will be made to establish the emerging patterns of this policy as it is projected in the seventies.
Daily at 11:20 A.M. Maurice M. Roumani

SS9-753 Advanced Psychological Foundations of Education, Section B **3 sem. hrs.**

In this course, class-members will study and evaluate the role of those environmental, mental and extra-mental forces which motivate all learners to utilize fully and effectively their capacities, aptitudes and attitudes. It includes a systematic analysis of the major schools of

psychology with special attention focussed on the contemporary schools. Attention is given to the teachers' role in the learning process and special emphasis will be centered on the application of these principles to specific classroom situations. Prerequisite: Nine semester hours undergraduate credit in General Psychology and Educational Psychology or their equivalency.
Evenings: Mon., Tues., Thurs. at 7:00 P.M. Bernard J. Guarini

SS8-152 Books and Related Materials for Children **3 sem. hrs.**

This course is designed to broaden teachers' and school librarians' acquaintance with literature suitable for elementary school children and to present effective procedures for fostering a love of good reading. Topics covered will include the classics, current fiction and non-fiction, the Newberry and Caldecott Awards, effective techniques of storytelling, interpretation of verse for children, illustrators of children's books, and sources of display materials.
Evenings: Mon., Tues., Thurs. at 7:00 P.M. Mary T. Hayes

SS8-52 Research in Education, Section B **3 sem. hrs.**

The major emphasis in this course will be placed on interpreting written research in terms of practical implementation in the schools. Course content will include criteria for evaluating research, library techniques in locating pertinent materials, and methods of reporting research. The student will submit a term paper summarizing a particular school content area in terms of published research.
Evenings: Mon., Tues., Thurs. at 7:00 P.M. David W. Hilton

SS8-470 Sociology of Education **3 sem. hrs.**

A course designed to study education as a social process as well as an institutional structure. The social roles of teachers, administrators, pupils. The group basis of education. Education and the community.
Evenings: Mon., Tues., Thurs. at 7:00 P.M. Frank C. Pizziferri

SS9-66 Personnel and Placement Services **3 sem. hrs.**

This is a required course for personnel workers in the public schools. This course will introduce occupational, educational, and personnel career-studies for appraisal and evaluation; statistical analysis of job needs and opportunities; use and function of school and out-of-school agencies including group and individual interviewing techniques; local, state, and federal job studies and opportunities; clinical procedures; a full review of the most important aspects of personnel work on the elementary, secondary and college levels. Setting up and appraising personnel programs on all levels will be stressed and studied.
Evenings: Mon., Tues., Thurs. at 7:00 P.M. G. Flint Taylor

SS8-579 Advance Calculus I **3 sem. hrs.**

Topics to be covered include partial derivatives and their applications; multiple integrals; infinite and power series; and Fourier Series (if time permits).
Evenings: Mon., Tues., Thurs. at 7:00 P.M. Anthony M. Devoe

SS9-953 Biology of Life Continuity **3 sem. hrs.**

This course will consider the principles underlying the continuation of life (including cellular and organismic reproduction, evolution of reproductive cycles, immunology of reproduction, embryogenesis, heredity, and eugenics). It will be directed towards expanding the background of those who have had a minimum of or no formal training in the biological sciences. Certain basic questions will be posed; and by means of lectures, appropriate audio-visual materials, and/or laboratory demonstrations, answers and recent interpretations to these questions will be offered.

Evenings: Mon., Tues., Thurs. at 7:00 P.M. Bruce D. Russell

SS8-220 Introduction to Geology **3 sem. hrs.**

Identification of common rocks and minerals; study of the evolution of landscapes through the effects of running water, wind, glaciers, volcanic action and other agents; emphasis on local geology, with occasional short field trips.

Evenings: Mon., Tues., Thurs. at 7:00 P.M. To be announced

SS8-677 The Baroque Seventeenth Century History **3 sem. hrs.**

A political and cultural history of the 17th and 18th centuries in Europe. After an examination of the principal state systems and their international relations, the course will take up the intellectual and cultural developments prior to the Great French Revolution. These will include an analysis of society, scientific achievements, and the philosophical literature. It will conclude with a comparative evaluation of culture.

Evenings: Mon., Tues., Thurs. at 7:00 P.M. Edwin R. Hedman

SS8-270 Reference Sources and Methods, Part I **3 sem. hrs.**

In this course librarians gain an understanding of the philosophy and techniques of reference service. The content and use of the basic reference tools also will be covered. Students will use the college library in practical reference problems.

Evenings: Mon., Tues., Thurs. at 7:00 P.M. Bernard McGough

FOR FURTHER INFORMATION CONCERNING YOUR PROGRAM OF STUDY, CONTACT:

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Program of Continuing Studies
Worcester State College
Worcester, Massachusetts 01602